

GenCore version 4.5  
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## OM protein - protein search, using sw model

Run on: January 7, 2002, 15:49:10 ; Search time 101.88 Seconds  
(without alignments)  
35.889 Million cell updates/sec

Title: us-08-569-749-10

Sequence: 1 PEOLASAGFYVNSDDVKC.....CWESGDDPMVQHAKWPPRCE 48

Scoring table: BLOSUM62  
Gapop 10.0 , Capext 0.5

Searched: 219241 seqs, 76174552 residues

Total number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR\_68:\*  
1: pir1:\*  
2: pir2:\*  
3: pir3:\*  
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	294	100.0	604	2	S68449	apoptosis inhibitor
2	283	96.3	358	2	JC5964	apoptosis inhibitor
3	270	91.8	618	2	S68450	apoptosis inhibitor
4	200	68.0	268	2	T10304	inhibitor of apopt
5	200	68.0	268	2	A53989	apoptosis-inhibiti
6	193	65.6	298	3	JC7568	kidney inhibitor o
7	185	62.9	275	2	A45679	inhibitor-of-apopt
8	177	60.2	497	2	S69544	apoptosis inhibitor
9	177	60.2	1447	2	T42628	neutroal apoptosis
10	173	58.8	1232	2	A53478	apoptosis inhibitor
11	153	52.0	496	2	S68452	apoptosis inhibitor
12	153	52.0	497	2	S69545	apoptosis inhibitor
13	116.5	39.6	4845	2	T31067	BIR repeat contain
14	116	39.5	150	2	T28409	ORF MSV248 probabl
15	114	38.8	286	2	D36828	orif3 protein - Au
16	111	37.8	275	2	T10310	apoptosis-inhibiti
17	111	37.8	292	2	T41772	IAP1 orif27 - Bomby
18	107	36.4	208	2	T03163	probable apoptosis
19	101	34.4	997	2	T43523	culit1 protein - fl
20	93	31.6	155	2	T30489	apoptosis inhibitor
21	80	27.2	308	2	T37474	apoptosis inhibitor
22	76	25.9	155	2	T77471	apoptosis inhibitor
23	68	23.1	234	2	T04027	probable apoptosis
24	64.5	21.9	329	2	T28403	ORF MSV242 probabl
25	62.5	21.3	772	2	D96504	protein F9C16.25 f
26	61	20.7	287	2	T05358	hypothetical prote
27	60.5	20.6	3005	2	T08841	polypeptide - dour
28	59.5	20.2	555	2	B49918	scfC protein - Str
29	58.5	19.9	844	1	ZPECBP	penicillin-binding

30	58.5	19.9	844	2	A85499	hypothetical prote
31	58	19.7	3229	2	S27852	probable cell-surf
32	57.5	19.6	2496	2	A71616	secreted protein p
33	57	19.4	385	2	E86449	hypothetical prote
34	56.5	19.2	114	2	S69006	trypsin/chymotryps
35	56.5	19.2	156	2	A48886	8-oxo-7,8-dihydrog
36	56.5	19.2	249	2	H72858	apoptosis inhibitor
37	56.5	19.2	249	2	T41814	IAP2 orif71 - Bomby
38	56	19.0	65	2	A38739	metallothionein -
39	56	19.0	760	2	T41644	hypothetical trp-a
40	55.5	18.9	415	2	C71467	probable tyrosine
41	55	18.7	553	2	D96684	hypothetical prote
42	55	18.7	588	2	S52524	hypothetical prote
43	55	18.7	1784	2	T43167	probable membrane
44	54.5	18.5	700	2	A96690	sodium channel pro
45	54.5	18.5	846	2	S57580	hypothetical prote
						penicillin-binding

## ALIGNMENTS

RESULT 1  
568449  
apoptosis inhibitor hiap-1 - human  
C:Species: Homo sapiens (man)  
C>Date: 17-Jul-1998 #sequence\_revision 17-Jul-1998 #ext\_change 21-Jul-2000  
C:Accession: S68449  
R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Farri, Nature 379, 349-353, 1996  
A:Title: Suppression of apoptosis in mammalian cells by NAIP and a related family c  
A:Reference number: A58182; MUID:56149249  
A:Accession: S68449  
A>Status: nucleic acid sequence not shown  
A:Molecule type: mRNA  
A:Residues: 1-604 <115>  
A:Cross-references: EMBL:045878; NID:g1184315; PIDN:AAC50371.1; PID:g1184316  
C:Function:  
A:Description: apoptotic suppressor  
C:Superfamily: RING finger homology  
C:Keywords: apoptosis; zinc finger  
F:553-597/Domain: RING finger homology <RNG>

Query Match 100.0%; Score 294; DB 2; Length 604;  
Best Local Similarity 100.0%; Pred. No. 4.3e-27;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PEOLASAGFYVNSDDVKCFCCDGLRCWESGDDPMVQHAKWPPRCE 48  
|||||  
Db 273 PEOLASAGFYVNSDDVKCFCCDGLRCWESGDDPMVQHAKWPPRCE 320

RESULT 2  
JC5964  
apoptosis inhibitor - pig  
C:Species: Sus scrofa domestica (domestic pig)  
C>Date: 04-Sep-1998 #sequence\_revision 04-Sep-1998 #ext\_change 02-Sep-2000  
C:Accession: JC5964  
R:Stehlik, C.; de Martin, R.; Binder, B.R.; Liip, J. Biochem. Biophys. Res. Commun. 243, 827-832, 1998  
A:Title: Cytokine induced expression of porcine inhibitor of apoptosis protein (Iap)  
A:Reference number: JC5964; MUID:98162622  
A:Accession: JC5964  
A>Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-358 <STE>  
A:Cross-references: GB:U79142; NID:g2957174; PIDN:AAC39171.1; PID:g2957175  
C:Superfamily: RING finger homology  
F:307-351/Domain: RING finger homology <RRN>

Query Match 96.3%; Score 283; DB 2; Length 358;  
Best Local Similarity 93.8%; Pred. No. 5.3e-26;

Matches 45: Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 48  
|||||  
Db 108 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 155

RESULT 3  
568450  
Apoptosis inhibitor biap-2 - human  
C:Species: Homo sapiens (man)  
C:Date: 17-Jul-1998 #sequence\_revision 17-Jul-1998 #text\_change 21-Jul-2000  
C:Accession: S68450  
R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Farahani, N.; Nature 379, 349-353, 1996  
A:Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP  
A:Reference number: A58182; MUID:96142249  
A:Accession: S68450  
A:Status: nucleic acid sequence not shown  
A:Molecule type: mRNA  
A:Residues: 1-618 <LIS>  
A:Cross-references: EMBL:U45879; NID:q1184317; PIDN:AAC50372.1; PID:q1184318  
C:Function:  
A:Description: apoptotic suppressor  
C:Superfamily: RING finger homology  
C:Keywords: apoptosis; zinc finger  
F:567-611/Domain: RING finger homology <RNG>

Query Match 91.8%; Score 270; DB 2; Length 618;  
Best Local Similarity 91.7%; Pred. No. 3e-24;  
Matches 44: Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 48  
|||||  
Db 287 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 334

RESULT 4  
T10304  
Inhibitor of apoptosis protein 3 - Orgyia pseudotsugata nuclear polyhedrosis virus  
C:Species: Orgyia pseudotsugata nuclear polyhedrosis virus, OPMNPV  
C:Date: 16-Jul-1999 #sequence\_revision 16-Jul-1999 #text\_change 15-Sep-2000  
C:Accession: T10304  
R:Ahrens, C.A.; Russell, R.R.; Funk, C.J.; Evans, J.; Haywood, S.; Rohmann, G.F. Virology 229, 381-399, 1997  
A:Title: The sequence of the Orgyia pseudotsugata multinucleocapsid nuclear polyhedrosis  
A:Reference number: 217011; MUID:97271300  
A:Accession: T10304  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-268 <AHN>  
A:Cross-references: EMBL:U75930; NID:q2934903; PIDN:AAC59034.1; PID:q1911281  
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology  
F:217-261/Domain: RING finger homology <RRN>

Query Match 68.0%; Score 200; DB 2; Length 268;  
Best Local Similarity 62.5%; Pred. No. 2.5e-16;  
Matches 30: Conservative 6; Mismatches 12; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 48  
|||||  
Db 129 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 176

RESULT 5  
A53989  
Apoptosis-inhibiting protein - Orgyia pseudotsugata multinucleocapsid nuclear polyhedrosis virus  
C:Species: Orgyia pseudotsugata multinucleocapsid nuclear polyhedrosis virus, OPMNPV  
C:Date: 15-Oct-1994 #sequence\_revision 15-Oct-1994 #text\_change 15-Sep-2000  
C:Accession: A53989  
R:Birnbau, M.J.; Clem, R.J.; Miller, L.K.

J. Virol. 68, 2521-2528, 1994  
A:Title: An apoptosis-inhibiting gene from a nuclear polyhedrosis virus encoding a po  
A:Reference number: A53989; MUID:94187094  
A:Accession: A53989  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-268 <BIR>  
A:Cross-references: GB:I22564; NID:q456111; PIDN:AAB02610.1; PID:q456114  
A:Note: authors translated the codon TGG for residue 28 as Tyr, GAC for residue 50 as  
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology  
F:217-261/Domain: RING finger homology <RRN>

Query Match 68.0%; Score 200; DB 2; Length 268;  
Best Local Similarity 62.5%; Pred. No. 2.5e-16;  
Matches 30: Conservative 6; Mismatches 12; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 48  
|||||  
Db 129 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 176

RESULT 6  
JC7568  
Kidney inhibitor of apoptosis protein - human  
C:Species: Homo sapiens (man)  
C:Date: 31-Mar-2001 #sequence\_revision 31-Mar-2001 #text\_change 31-Mar-2001  
C:Accession: JC7568  
R:Lin, J.H.; Deng, G.; Huang, Q.; Morser, J. Biochem. Biophys. Res. Commun. 279, 820-831, 2000  
A:Title: KIAF, a novel member of the inhibitor of apoptosis protein family.  
A:Reference number: JC7568; MUID: 21092523  
A:Contents: fetal kidney  
A:Accession: JC7568  
A:Molecule type: mRNA  
A:Residues: 1-298 <LIN>  
A:Comment: This protein, a new member of the inhibitor of apoptosis protein family, p  
C:Genetics:  
A:Gene: klap  
A:Map position: 20q13.3  
C:Keywords: apoptosis

Query Match 65.6%; Score 193; DB 3; Length 298;  
Best Local Similarity 60.4%; Pred. No. 1.8e-15;  
Matches 29: Conservative 9; Mismatches 10; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGNDDVKCFCCDGLRCWESGDDPMVOHAKMPRCE 48  
|||||  
Db 105 PELTAAAGFFHTGHQDKVRCFCYGLQSWKRGDDPWTERAKMPSCQ 152

RESULT 7  
A45679  
Inhibitor-of-apoptosis polypeptide (IAP) - Cydia pomonella granulosis virus (CyPV)  
C:Species: Cydia pomonella granulosis virus CpV  
C:Date: 21-Sep-1993 #sequence\_revision 25-Apr-1997 #text\_change 15-Sep-2000  
C:Accession: A45679  
R:Crook, N.E.; Clem, R.J.; Miller, L.K. J. Virol. 67, 2168-2174, 1993  
A:Title: An apoptosis-inhibiting baculovirus gene with a zinc finger-like motif.  
A:Reference number: A45679; MUID:9318168  
A:Accession: A45679  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-275 <CRO>  
A:Cross-references: GB:I05494; NID:q289583; PIDN:AAA43835.1; PID:q289584  
A:Note: sequence extracted from NCBI backbone (NCBIN:127014, NCBIF:1127015)  
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology

Query Match 62.9%; Score 185; DB 2; Length 275;





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